

# Trophy #127: Blackmagic Design PTZ Camera



The image shows a Blackmagic Design PTZ camera setup. On the left is a Blackmagic Design camera (URSA, Studio 4K, or Micro Studio) with a PTZ camera module attached. In the center is a plus sign. To the right is a RushWorks PTX3 PTZ camera module. Above the PTX3 are two smaller modules: a Blue Pill and a Reactor. The background is dark blue with circuit-like patterns. The text 'BlackMagic Design PTZ Camera' is in large white letters. The SKAARHOJ logo is in the top right. At the bottom, there is a text box with the following text: 'Turn a Blackmagic Design URSA, Studio 4K, or even Micro Studio camera with any lens type and a RushWorks PTX3 into a fully integrated PTZ camera solution'. In the bottom right corner, there is a small image of a trophy and the text '#127'.

**BlackMagic Design PTZ Camera**

Turn a Blackmagic Design URSA, Studio 4K, or even Micro Studio camera with any lens type and a RushWorks PTX3 into a fully integrated PTZ camera solution

SKAARHOJ

#127

## Resources

- [Blackmagic Design PTZ camera](#) - Accessories and settings to connect
- [PTZ Fly, PTZ Pro, PTZ Extreme](#) - Product details and price
- [BlackMagicDesign Device Core Parameters](#) - All the parameters we support
- [Product Information Document PTZ Fly](#) - Product descriptions, product images, data sheet, FAQ and videos
- [Product Information Document PTZ Pro](#) - Product descriptions, product images, data sheet, FAQ and videos
- [Product Information Document PTZ Extreme](#) - Product descriptions, product images, data sheet, FAQ and videos
- [Blue Pill / Reactor](#) - Getting started

# Trophy #127

# BlackMagic Design PTZ Camera

## Benefits

- ★ Turn any BlackMagic Design camera into a PTZ camera
- ★ Control iris on your B4 lenses
- ★ Seamless control of camera, lens, and PT-head via SKAARHOJ's integrative controllers
- ★ Preset across devices
- ★ Control with or without BMD ATEM switcher
- ★ Scale it to any number of such kits
- ★ Mix in regular PTZ camera brands and models

## Model Support

- All BlackMagic Design cameras with SDI-In control
- RUSHWORKS PTX3
- B4 Lenses with 12-pin Hirose, 12V and Iris servo

## Default Combinations

- **"BMD Cam + ETH-B4 Link + PTX3"** - Default profile

Said configuration also exists for PTZ Fly, PTZ Pro, and PTZ Extreme. Alternative configurations exist for control of the camera through ATEM instead of ETH-SDI Link. Also consider using SKAARHOJ RCP controllers to shade the cameras and control lenses separately.

## Set Up Example

Mount BMD camera with lens on PTX3 saddle along with ETH-B4 Link, control lens ETH-B4 Link, and ETH-B4 Link to RJ-45 on PTX3 arm. Connect BMD camera to SDI In/Out on arm. Connect PTX3 Ethernet and Aux RJ-45 to your PoE Ethernet switch. Connect ETH-SDI Link out to PTX3 SDI-In for camera control (ATEM-less workflow)

## Technical Notes

Any mainstream SKAARHOJ PTZ controller will function in this workflow. The same configurations are available for PTZ Fly, Pro, and Extreme. You can control the camera with or without an ATEM switcher (ETH-SDI Link is required without).

## Learn More

Demonstration  
video

Manuals, Cabling  
Guides, Parameter  
Support, Press Kit

## Blue Pill and Reactor

Blue Pill is a SKAARHOJ platform that boosts the capacity and capability of SKAARHOJ UniSketch controllers. Reactor is our flagship panel management application running on Blue Pill or Blue Pill Inside (BPI) powered controllers.

## Reseller / Notes

The diagram illustrates the setup for a PTZ camera system. It shows a BlackMagic Design camera connected to a RUSHWORKS PTX3 controller. The PTX3 is connected to a PoE Switch, which is connected to a Master Blue Pill (Opt.) unit. The PTX3 is also connected to an ETH-B4 Link unit, which is connected to an ETH-SDI Link (Opt.) unit. The ETH-SDI Link is connected to a PTZ Fly, Pro, and Extreme controller. The PTX3 is also connected to a B4 Lenses unit, which is connected to the camera. The PTX3 is also connected to a PoE Switch, which is connected to a Master Blue Pill (Opt.) unit. The PTX3 is also connected to an ETH-B4 Link unit, which is connected to an ETH-SDI Link (Opt.) unit. The ETH-SDI Link is connected to a PTZ Fly, Pro, and Extreme controller. The PTX3 is also connected to a B4 Lenses unit, which is connected to the camera.

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